

# 4690 series

## Turbidity sensors



Emitter module LED / lamp replacement

Measurement made easy

4690 series  
turbidity sensors

## 1 Introduction

This publication details the emitter module LED / lamp replacement procedure for 4690 series turbidity sensors. The procedure must be carried out by a trained technician.

The contents of the emitter module LED replacement kit are shown in Table 1 and the contents of the emitter module lamp replacement kit are shown in Table 2.

Description	Part No.	Qty.
LED – ISO infrared version for sensor systems 7998-011, 7998-012, 7998-016 and 7998-017	7998 126	1
End cap assembly	7998 021	2
This publication – Emitter module LED / lamp replacement	INF11/063-EN	1

Table 1 Replacement LED kit  
(ISO infrared LED version) 7998 044

Description	Part No.	Qty.
Lamp – EPA white light version for sensor systems 7998-001, 7998-002, 7998-006 and 7998-007	7998 125	1
End cap assembly	7998 021	2
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Table 2 Replacement lamp kit  
(EPA white light version) 7998 032

## 2 For more information

Further information is available from:

[www.abb.com/analytical](http://www.abb.com/analytical)

or by scanning these codes:



Sales



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## 3 Replacing emitter module LED / lamp

**Note.** Do not touch the LED / lamp, handle the LED / lamp using the retaining tabs (item ③ in Fig. 3.1) only.

1. Isolate the sensor assembly from the power supply.
2. Referring to Fig. 3.1:
  - a. Unscrew and remove emitter and receiver module end cap assemblies ① and discard.
  - b. Disconnect the emitter LED / lamp connector ② from receptacle J2 on the PCB.
  - c. Gently squeeze retaining tabs ③ together and pull to withdraw LED / lamp ④ from its housing ⑤.
  - d. Carefully remove the replacement LED / lamp from its packaging.
  - e. Insert replacement LED / lamp ④ into housing ⑤ ensuring tab on LED / lamp ⑥ enters slot in housing. Press until LED / lamp clicks into place.
  - f. Connect the emitter LED / lamp connector ② to receptacle J2 on the PCB.

**Note.** The emitter LED / lamp connector and receptacle J2 are shaped to prevent incorrect connection.

- g. Ensure emitter and receiver module end cap O-rings ⑦ are undamaged and located correctly in the module groove.
- h. Fit replacement emitter and receiver module end caps from kit. Tighten hand tight only.

continued overleaf...

3. Restore the power supply to the turbidity sensor.
4. Calibrate the sensor – see Section 7 of the User Guide (IM/4690-EN).

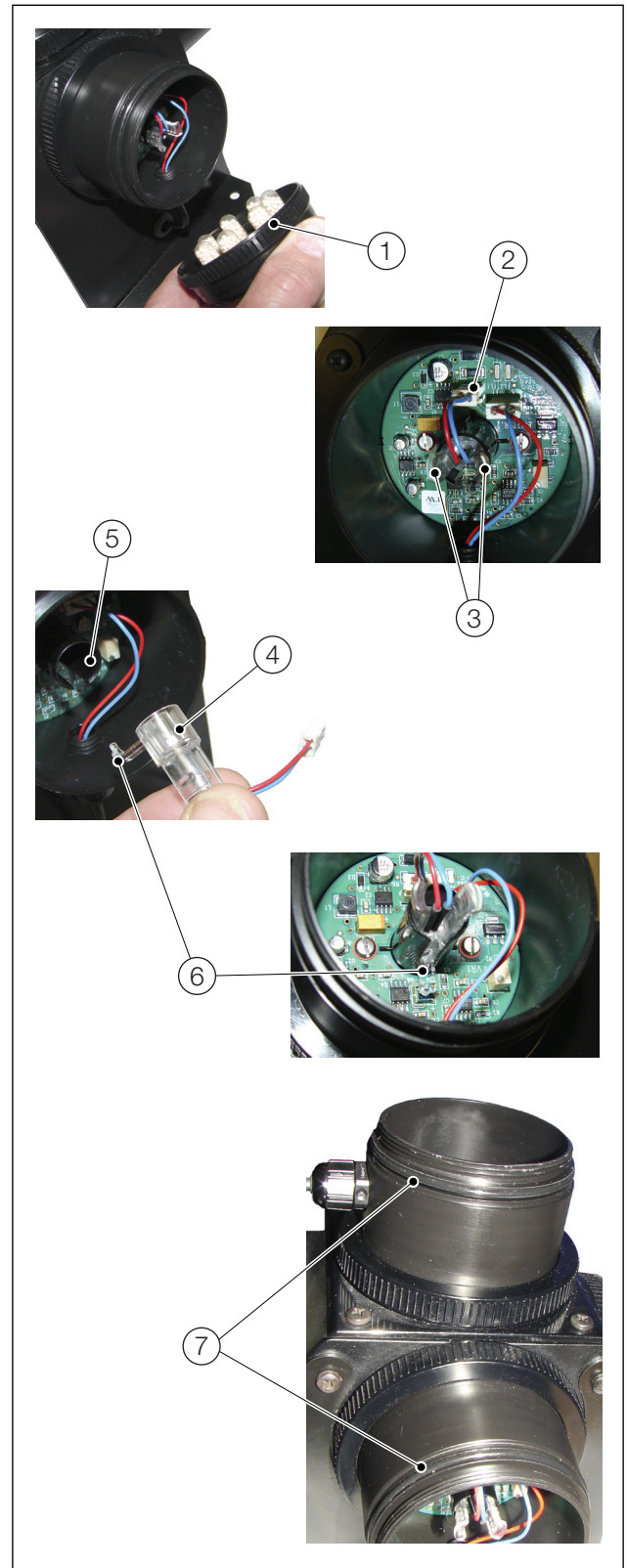


Fig. 3.1 Replacing emitter module LED / lamp

Notes

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